

**ABSTRACT OF THE DISCLOSURE**

A position sensor for sensing linear or radial position, including at least four magnets, a first ferrous plate having at least two of the at least four magnets located at spaced locations along the first ferrous plate, the at least two magnets being oriented such that a north pole of at least one of the at least two magnets is directed toward the first ferrous plate and a south pole of an other of the at least two magnets is directed toward the first ferrous plate, a second ferrous plate having at least two of the at least four magnets located at spaced locations along the second ferrous plate, the at least two magnets being oriented such that a north pole of at least one of the at least two magnets is directed toward the second ferrous plate and a south pole of an other the at least two magnets is directed toward the second ferrous plate, the first ferrous plate and the second ferrous plate being generally parallel and spaced apart and at least one magnetic flux responsive device disposed between the first ferrous plate and the second ferrous plate.